Dr. Phillip Morrison Department of Physics Cornell University Ithaca, New York

Dear Phil:

Jaffe has more certain information on the surface environment of the than I do.

But there is some merit to the view that moisture is the limiting ecological factor, and I would share the expectation that an organism large enough to shield itself might be preferred in the exposed environment. However, there must also be saprophytes to complete the carbon cycle and I would still propose these as the most ubiquitous types, as they are on earth. If these could evolve efficient means for accumulating H₂O against a concentration gradient, (as terrestrial cells do to some extent for water, and sometimes very spectacularly for, say, Varradium) they might have an active rather than passive barrier to the desiccant equilibrium.

More power to him if he can design the calorimeter. But how will he distinguish photosynthesis from other photochemically driven reactions?

Yours sincerely,

Joshua Lederberg Professor of Genetics